

ABSTRACT

A rudder control system having adjustable rudder drive turn off and "turn on," and component ware monitoring. The rudder drive "turn off" being adjusted in accordance with the rudder stop position relative to the rudder order stop position, thereby improving position accuracy. Frequency of system "turn on" is compared to an acceptable "turn on" frequency for solenoid operation. Should the "turn on" frequency exceed the acceptable "turn on" frequency, the rudder angle at which "turn on" is implemented is adjusted to protect solenoids in the system from burnout. The rate of change of the rudder repeatback signal is monitored. A slow rate of change providing an indication of some component problem.